PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	
85409-29	ACTION as we	see Form PCT/ISA/220 ell as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/CA2004/000726	14/05/2004	16/05/2003
Applicant		10/03/2003
UNIVERSITE LAVAL		
This international Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Aut ansmitted to the International Bureau.	thority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
	a copy of each prior art document cited in this	s report.
	international search was carried out on the ba ass otherwise indicated under this item.	
this Authority (Rul	search was carried out on the basis of a transle 23.1(b)).	ation of the international application furnished to
b. X With ragard to any nucleo	tide anੀਨਾ ਕਫ਼ੀਨਾ acid servicince disclosed	in the international application, see Punition.
2. X Certain claims were foun	ed unsearchable (See Box II).	
3. Unity of invention is lack	ing (see Box III).	
4. With regard to the title.		
X the text is approved as sub	mitted by the applicant.	
grander, and the second	ed by this Authority to read as tollows:	
	•	
	•	
5. With regard to the abstract,		
the text is approved as subm	nitted by the applicant	
the text has been established	d, according to Rule 38.2(b), by this Authority the date of mailing of this international search	as it appears in Box No. IV. The applicant report, submit comments to this Authority.
6. With regards to the drawings,		
a. the figure of the drawings to be pub	lished with the abstract is Figure No	
X as suggested by the		
<u></u>	uthority, because the applicant tailed to sugge	est a floure.
	uthority, because this figure better characteriz	
b. none of the figures is to be po	ublished with the abstract.	
TO PCT/ISAMAN (Brot shoot) / January Cooky		

INTERNATIONA' SEARCH REPORT

International application No.

		·CT/CA2004/000726
Box	No.	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	Witt	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, the international search was carried out on the basis of:
	a.	type of material
		X a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		X in written format
		X in computer readable form
	Ç.	time of filling/furnishing
		X contained in the international application as filed
		X filed together with the international application in computer readable form
		furnished subsequently to this Authority for the purpose of search
2.		
۷.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filled or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filled or does not go beyond the application as filled, as appropriate, were furnished.
3	Additi	onal comments:
		·
		•

A. CLASSIFICATION OF SUBJECT MA		PCT	/CA2004/000726
IPC 7 A61P25/00 A61P23/00	A61K39/395	A61K31/00	G01N33/48
According to International Patent Classification (IPC) or to both		.8.	
B. FIELDS SEARCHED	national classification ar	d IPC	•
Minimum documentation searched (classification system tollor IPC 7 A61K	wed by dassification symi	ools)	
1PC 7 A61K		•	
Documentation searched other than minimum documentation to	the extent that such doc	uments are included in	the fields searched
lectronic data base consulted during the international search	(name of data base and,	where practical, search	terms used)
EPO-Internal, BIOSIS, MEDLINE, EM	BASE, WPI Dat	a, PAJ, CHEM	ABS Data
DOCUMENTS CONSIDERED TO BE RELEVANT			
ategory * Citation of document, with indication, where appro	opriale, of the relevant par	ssages	Fielevant to claim No
-7 IIS 2002/028779 A1 (UTCU			
US 2002/028779 A1 (HIGH AL) 7 March 2002 (2002-0	KARIN WESTLUNI 3-07)) ET	1-16, 21-39,
paragraph '0010! - paragi	raph '0012!		53-59,64
paragraph '0023!	•		
paragraph '0028! - paragraph '0041!	aph '0029!		
paragraph '0050! - paragr	raph 'COSi:	•	
example 2			
claims 4,12,19	_		Í
	-/		
	•		
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Further documents are listed in the continuation of box C.	-		
	X P	stent family members an	a listed in annex.
cial categories of cited documents :	*T* later de	cument published after	the international filing date
ocument defining the general state of the art which is not considered to be of particular relevance	cited	o understand the princip	ilict with the application but ble or theory underlying the
ariler document but published on or after the international filing date	'X' docum	on) of particular relevance	'a' the delmest inventes
ocument which may throw doubts on priority claim(s) or which is clied to establish the publication date of another citation or other another.	COLLINA	r va constantina backer us	cannot be considered to the document is taken alone
want of other special reason (as specified)	Y docume	eat of particular relevens	e; the claimed invention to an inventive step when the
ocument referring to an oral disclosure, use, exhibition or other means	OCCUPIT CONTRACTOR OF THE PROPERTY OF THE PROP	icia io collingiam aunii du	e or more other such docu- convious to a person sided
ocument published prior to the international filing date but ater than the priority date claimed	A I AITE (art. Int member of the same	
If the actual completion of the International search	**************************************	mailing of the internation	<u></u>
23 September 2004		8/10/2004	····· coaren (ahon
and malling address of the ISA		ed officer	
European Patent Office, P.B. 5818 Patentaan 2 NL ~ 2280 HV Rilswilk	Authoriz	EU UNICHT	
Tel. (+31-70) 340-2040, Tx. 31 651 epo nt Fax: (+31-70) 340-3016	1,	rion, A	

C.(Continu	ation) DOCUMENTS CONSIL _D TO BE RELEVANT	PCT/CA2004/000726		
Category °		Relevant to claim No.		
X	/WO 02/102232 A (UNIV CALIFORNIA; LEVINE JON DAVID (US); MESSING ROBERT O (US)) 27 December 2002 (2002-12-27) page 7, line 4 - line 8 page 3, line 1 - line 2 page 10, line 20 - line 23 page 14, line 7 - line 9 page 56, line 17 - line 20 claim 94	1-13,17, 18, 21-37, 40,41, 53-57, 60,61,64		
X	ALEY KOCHUVELIKAKAM O ET AL: "Role of protein kinase A in the maintenance of inflammatory pain" JOURNAL OF NEUROSCIENCE, vol. 19, no. 6, 15 March 1999 (1999-03-15), pages 2181-2186, XP002297725 ISSN: 0270-6474 abstract	1-13,17, 18, 21-37, 40,41, 53-57, 60,61,64		
	HUA XIAO-YING ET AL: "Inhibition of spinal protein kinase C reduces nerve injury-induced tastile allodynia in neuropathic rats" NEUROSCIENCE LETTERS, vol. 276, no. 2, 3 December 1999 (1999-12-03), pages 99-102, XP002297726 ISSN: 0304-3940 abstract	1-13,17, 18, 21-37, 40,41, 53-57, 60,61,64		
· • • • • • • • • • • • • • • • • • • •	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 2001, FANG L ET AL: "CaMK II signaling in central senzitization in a rat model of visceral pain" XP002297727 Database accession no. PREV200200002912 abstract & SOCIETY FOR NEUROSCIENCE ABSTRACTS, vol. 27, no. 2, 2001, page 2163, 31ST ANNUAL MEETING OF THE SOCIETY FOR NEUROSCIENCE; SAN DIEGO, CALIFORNIA, USA; NOVEMBER 10-15, 2001 ISSN: 0190-5295	1-7,9, 11-13, 19-37, 42,43, 53-57, 62-64		
CT/ISA/210 fm	ntinuation of second sheet) (January 2004)			

C/Continu	ation) DOCUMENTS CONSIL D TO BE RELEVANT	PCT/CA2004/000726		
Calegory •	Citation of document, with indication, where appropriate, of the relevant passages			
· · · · · · · · · · · · · · · · · · ·	two days optime, of the relevant passages	Relevant to claim No.		
Р,Х	WO 2004/032870 A (RINAT NEUROSCIENCE CORP; SHELTON DAVID L (US); VERGARA GERMAN J (US)) 22 April 2004 (2004-04-22) paragraph '0042!; figure 9 paragraph '0128! paragraph '0185!; example 5	1-16, 21-39, 53-59,64		
Ρ, Χ	COULL JEFFREY A M ET AL: "Trans-synaptic shift in anion gradient in spinal lamina I neurons as a mechanism of neuropathic pain." NATURE (LONDON), vol. 424, no. 6951, 21 August 2003 (2003-08-21), pages 938-942, XP002294556 ISSN: 0028-0836 the whole document	44-52, 65-81		
, A		1-43, 53-64		
1	WO 93/00909 A (REGENERON PHARMA) 21 January 1993 (1993-01-21) the whole document	1-16, 21-39, 53-59,64		
	WO 01/85151 A (RAYCHAUDHURI SIBA P; RAYCHAUDHURI SMRITI K (US); FARBER EUGENE M (US)) 15 November 2001 (2001-11-15) the whole document	1-16, 21-39, 53-59,64		
	DE PLATER G M ET AL: "Venom from the platypus, Ornithorhynchus anatinus, induces a calcium-dependent current in cultured dorsal root ganglion cells" JOURNAL OF NEUROPHYSIOLOGY (BETHESDA), vol. 85, no. 3, March 2001 (2001-03), pages 1340-1345, XP002294557 ISSN: 0022-3077 the whole document	1-16, 21-39, 53-59,64		

4

International Application No. PCT/CA2004 /000726

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claims 1-21,31,33,35-43,53-81 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Although claims 65-81 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

INTERNATIO" IL SEARCH REPORT

International application No. PCT/CA2004/000726

	rtain claims were found unsearchable (Continuation of item 2 of first sheet)
	not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
المسيا	21,31,33,35-43,53-81 (all partially) of matter not required to be searched by this Authority, namely:
see FURTHER INFOR	MATION sheet PCT/ISA/210
	WILLIAM SHEEL FCI/19A/510
Claims Nos.:	
because they relate to parts of an extent that no meaningful it	f the International Application that do not comply with the prescribed requirements to such nternational Search can be carried out, specifically:
Claims Nos.: because they are dependent d	laims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
war Observations where unity	of invention is lacking (Continuation of item 3 of first sheet)
s International Searching Authority for	und multiple inventions in this international application, as follows:
As all required additional search	lees were timely paid by the applicant, this International Search Report covers all
COCHUIDA CIZINS	The second of th
As all searchable claims could be of any additional fee.	e searched without effort justifying an additional fee, this Authority did not invite payment
As only some of the required add	Bitional search fees were timely paid by the applicant, this International Search Report
covers only those dalms for which	h fees were paid, specifically claims Nos.:
No required additional search fees restricted to the invention first men	were timely paid by the applicant. Consequently, this International Search Report is
No required additional search fees restricted to the invention first men	s were timely paid by the applicant. Consequently, this International Search Report is nitioned in the claims; it is covered by claims Nos.;
No required additional search fees restricted to the invention first men	were timely paid by the applicant. Consequently, this international Search Report is tioned in the claims; it is covered by claims Nos.:
	s were timely paid by the applicant. Consequently, this International Search Report is nitioned in the claims; it is covered by claims Nos.:
No required additional search fees restricted to the invention first men	s were timely paid by the applicant. Consequently, this International Search Report is nitioned in the claims; it is covered by claims Nos.: The additional search fees were accompanied by the applicant's protest.

Information on pater		atton on patent family m	lly members		PCT/CA2004/000726		
·	Patent document cited in search report		Publication date		Patent family member(s)		Publication date
جر_	US 200202877) A1	07-03-2002	NON			
V	WO 02102232	A	27-12-2002	WO US	02102232 2003008807		27 - 12-2002 09-01-2003
<i>!</i>	WO_2004032870	A	22-04-2004	WO	2004032870	A2	22-04-2004
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!	WO 0185151	A	15-11-2001	AU WO	6132401 0185151		20-11-2001 15-11-2001